

Sub

- 5

- 10

- 15 Sub
A2
10 ma

- 20-

- 25

6. The medical device of Claim 1, wherein the medical device is an orthotic appliance.

7. The medical device of Claim 1, wherein the medical device is a dental appliance.

8. The medical device of Claim 5, wherein the wound dressing is shaped for a use around external fixture pin structures.

9. The medical device of Claim 5, wherein the wound dressing is shaped for a use around ostomy sites.

10. The medical device of Claim 5, wherein the wound dressing is shaped for a use around tracheostomy sites.

11. The medical device of Claim 5, wherein the wound dressing is shaped for a use around catheter sites.

12. The medical device of Claim 5, wherein the wound dressing is shaped for packing body cavities.

13. The medical device of Claim 1, wherein the device has a tubular shape.

14. The medical device of Claim 13, wherein the tubular shape is incorporated into a wound drain.

15. A medical device, comprising, a wound dressing incorporated into an appliance,

Due
C3

C3 7 wherein the wound dressing comprises a plurality of layers of a fibrous material;

5 wherein the material contains nonmetalized fibers and fibers that are at least partially coated with a metallic material to yield metalized fibers, each layer being joined to an adjacent layer and having a ratio of metalized fibers to nonmetalized fibers; and

10 wherein the layers form a gradient of metalized fiber to nonmetalized fiber ratios, the highest ratio layer capable of being placed in a contact with a wound site.

15 16. The medical device of Claim 15, wherein the appliance is shaped for a use selected from the group consisting of orthopedic, dental, catheter, packing a body cavity, an ostomy site, a tracheostomy site, and around external fixture pin structures.

17. The medical device of Claim 15 wherein the appliance has a tubular shape.

20 18. The medical device of Claim 17 wherein the tubular shape comprises a wound drain.

Sub A2 19. A method for accelerating healing and treating pain of a portion of the body of a living organism comprising:

25 a.) applying a medical device for treating a portion of the body of a living organism comprising, at least one layer of conductive material;

wherein the conductive material comprises a resistance less than about $1000 \Omega/\text{cm}^2$; and

05643961.07.1100

wherein no external energy source or galvanic cell action is required to alter the electrodynamic processes of a portion of the body of a living organism;

- Add H₂